

# Studying Habituation in *Stentor coeruleus*

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jove.com/video/64692

## Materials

Name	Company	Catalog Number	Comments
0.01% Poly-ornithine	Millipore Sigma	P4957	Used to coat Petri plate
35-mm Petri plate	Benz Microscope Optics Center Inc.	L331	Contains <i>Stentor</i> during experiments
6-well plate	StemCell Technologies	38016	Used to wash <i>Stentor</i>
Aluminum breadboard, 4" x 24" x 1/2" (x1)	Thorlabs	MB424	Used to construct habituation device
Big easy driver stepper motor driver board (x1)	Sparkfun	ROB-12859	Used to construct habituation device
Construction rail, 1" x 5" (x2)	Newport	Newport CR-1	Used to construct habituation device
Laptop	Apple Store	<a href="https://www.apple.com/macbook-air-m1/">https://www.apple.com/macbook-air-m1/</a>	Connect laptop to USB microscope to visualize experiments
Large right-angle bracket (x1)	Thorlabs	AP90RL	Used to construct habituation device
Microcontroller board	Arduino	A000066	Used to control habituation device
Nema 17 Stepper Motor Bipolar 59Ncm 2A 84oz.in 48mm 4-Lead	Stepperonline.com	5-17HS19-2004S1	Used to construct habituation device
Pasteurized spring water	Carolina	132458	Media for <i>Stentor</i> experiments
Right-angle bracket (x3)	Thorlabs	AP90	Used to construct habituation device
Stemi 2000 stereo microscope	Zeiss		Used to visualize <i>Stentor</i> during wash steps
<i>Stentor coeruleus</i>	Carolina	131598	These are the cells used for habituation experiments
USB microscope	Celestron	44308	Used to visualize and record experiments
Webcam recorder	Apple Store	<a href="https://apps.apple.com/us/app/webcam-recorder/id1508067444?mt=12">https://apps.apple.com/us/app/webcam-recorder/id1508067444?mt=12</a>	Install this application to take videos of experiments